

FORM PTO-1390 (REV 10-97)	U.S. Department of Commerce Patent and Trademark Office	ATTORNEY'S DOCKET NUMBER CE01538R
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. 09/1673273
INTERNATIONAL APPLICATION NO. PCT/EP99/02578	INTERNATIONAL FILING DATE 15 APRIL 1999	PRIORITY DATE CLAIMED 16 APRIL 1998
TITLE OF INVENTION: DATA CARRIER SYSTEM		
APPLICANT(S) FOR DO/EO/US HOWELL, ET AL.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the application time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</li> <li><input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</li> <li><input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371 (c)(2)).</li> <li><input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li><input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li><input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
Items 11 to 16 below concern other document(s) or information included:		
<ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li><input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>14. <input type="checkbox"/> A substitute specification.</li> <li>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>16. <input type="checkbox"/> Other items or information:</li> </ol>		

529 Rec'd PCT/PTO 12 OCT 2000

U.S. Application No. (if known, see 37 CFR 1.5) <b>09/673273</b>	International Application No. PCT/EP99/02578	Attorney Docket Number CE01538R	
17. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS	PTO USE ONLY
<b>Basic National Fee (37 CFR 1.492(a)(1)-(5):</b>			
Search report has been prepared by the EPO or JPO .....\$930.00			
International preliminary examination fee paid to USPTO (37 CFR 1.482) .....\$720.00			
No International preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445 (a)(2)).....\$790.00			
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO .....\$1,070.00			
0			
Intentional preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4).....\$98.00			
<b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> <b>\$ 930.00</b>			
Surcharge of \$130.00 for furnishing the oath and declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)). <b>+</b> <b>\$</b>			
Claims	Number Filed	Number Extra	Rate
Total Claims	19 - 20 =		X \$22.00 <b>\$</b>
Independent Claims	2 - 3 =		X \$82.00 <b>\$</b>
Multiple dependent claim(s) (if applicable)		+\$270.00 <b>\$</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b> <b>\$ 930.00</b>			
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28). <b>\$</b>			
<b>SUBTOTAL:</b> <b>\$ 930.00</b>			
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). <b>+</b> <b>\$</b> <b>930.00</b>			
<b>TOTAL NATIONAL FEE =</b> <b>\$</b>			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property <b>+</b> <b>\$</b>			
<b>TOTAL FEES ENCLOSED</b> <b>=</b> <b>\$ 930.00</b>			
			Amount to be refunded <b>\$</b>
			charged <b>\$ 930.00</b>
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>13-4772</u> in the amount of \$ <u>930.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required now or in the future under 37 CFR 1.16 or 37 CFR 1.17, including any present or future time extension fees which may be required, or credit any overpayment to Deposit Account No. <u>13-4772</u>. Two duplicate copy of this sheet is enclosed.</p> <p>Note: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p>			
<p>Send all correspondence to:</p> <p>Motorola, Inc. Intellectual Property Department, 3rd Floor 1303 E. Algonquin Road Schaumburg, Illinois 60196</p> <p> JOHN J. KING Attorney for Applicant(s) Reg. No.: 35,918 Telephone: (847) 538-2725 Fax No.: (847) 576-3750</p>			

DATA CARRIER SYSTEMField of the Invention

5 The present invention relates to a data carrier system, for example, of the type used by communications devices, such as cellular telephones. The present invention also relates to a method of operating the data carrier system.

10 Background of the Invention

It is known in some cellular telephony applications to install and activate a data carrier, such as a Subscriber Identity Module (SIM), in a cellular telephone so as to enable the cellular telephone to operate fully, otherwise a

15 limited service is available. For example, in the Global System for Mobile communication (GSM), a SIM must be installed and activated in a GSM telephone in order to be able to use the GSM telephone, otherwise emergency calls may only be placed.

20 Less common, but still known in the art, is a cellular telephone having the capability of receiving two SIMs (a dual-SIM configuration): a semi-permanently installed SIM or fixed SIM having a first subscription associated therewith, and a visiting SIM having a second subscription associated therewith which may vary depending upon a user of the cellular telephone. The visiting SIM can be installed intermittently when required by the user. In such a configuration, even if both SIMs are electrically coupled to the cellular telephone, only one of the two SIMs is activated, since only one of the first and second subscriptions can be accepted by the network for any single cellular telephone. Therefore, the fixed SIM is usually

25 disregarded or electrically decoupled from the cellular telephone when the visiting SIM is installed, the visiting SIM being activated in preference to the fixed SIM. The fixed SIM is thus not visible to the network.

30 When the visiting SIM is removed, the fixed SIM is activated and the first subscription becomes the active subscription in the network. If another, or the same visiting SIM is re-installed, the fixed SIM is deactivated and the first subscription not used; the new or the same visiting SIM and associated

second or other subscription becomes active. Generally, since the visiting SIM has priority over the fixed SIM, if the visiting SIM is never removed, the fixed SIM is never activated.

- 5 Applications are emerging for cellular telephones integrated into vehicles in order to add functionality to security or safety features of the vehicle. However, in order for such security or safety features to be efficient and effective, data stored on the fixed SIM must be accurate and up-to-date.
- 10 In the above described dual-SIM configuration, this is not realistically achieved, since it is not possible to guarantee that the fixed SIM can be kept up-to-date because of the possibility that the fixed SIM may never communicate with the network for a prolonged period of time. It is therefore an object of the present invention to provide a data carrier system which
- 15 obviates or mitigates the above described problem.

#### Summary of the Invention

According to the present invention, there is provided a data carrier system comprising a first data carrier selectively couplable to a communications device and a second data carrier selectively couplable to the communications device in preference to the first data carrier, the first data carrier being arranged to be decoupled from the communications device when the second data carrier is coupled to the communications device; and during a predetermined period of time the communications device is arranged to be ensured of a supply of power and the second data carrier is arranged to be decoupled from the communications device, thereby causing the first data carrier to be coupled to the communications device for the execution of a task requiring the first data carrier.

According to the present invention, there is also provided a method of operating a data carrier system including a first data carrier selectively couplable to a communications device and a second data carrier selectively couplable to the communications device in preference to the first data carrier, the first data carrier being arranged to be decoupled from the communications device when the second data carrier is coupled to the communications device, the method comprising the steps of: during a

predetermined period of time, ensuring a supply of power to the communications device, and decoupling the second data carrier from the communications device, thereby causing the first data carrier to be coupled to the communications device for the execution of a task requiring the first data carrier.

5

It is thus possible to provide a system and method for updating the first data carrier.

10 Other, preferred, features and advantages will become apparent from the accompanying description, drawings and dependent claims.

#### Brief Description of the Drawings

15 At least one embodiment of the invention will not be described, by way or example, with reference to the accompanying drawings, in which:

FIG. 1 is a schematic illustration of an automobile in the vicinity of a base station of a cellular telephone network;

20 FIGs. 2 and 3 are schematic diagrams of apparatus constituting an embodiment of the invention;

25 FIGs. 4 to 6 are flow diagrams of a method of operation of the apparatus of FIGs. 2 and 3 in one embodiment of the invention, and

FIGs. 7 to 11 are flow diagrams of another method of operation of the apparatus of FIGs. 2 and 3 in another embodiment of the invention.

30

#### Description of a Preferred Embodiment

A vehicle, such as an automobile 100, includes a cellular telephone 102, such as a GSM International 2000 cellular telephone manufactured by Motorola 35 Electronic GmbH electrically connected to a trunk unit 104 having a first SIM card reading unit 214 (FIG. 2), typically located in the boot (sometimes referred to as the 'trunk') of the automobile 100. The cellular telephone 102

(FIG. 1) is electrically connected (not shown) to an antenna 106 for communication with a base station 108 of a GSM cellular telephone network, via a radio interface 110.

5 The first SIM card reading unit 214 receives and holds, on a semi-permanent basis, a first SIM card 200 (hereinafter referred to as the "fixed SIM"). Referring to FIG. 3, the cellular telephone 102 has a second SIM card reading unit 304 for reading a second SIM card 300 (hereinafter referred to as the "visiting" SIM) and a keypad 306 comprising an on/off key 308 for

10 powering-up and powering-down the cellular telephone 102. By "power-down" (or "unpower"), it is meant that the cellular telephone 102 enters a "stand-by" mode where a keypad of the cellular telephone 102 is disabled, a display of the cellular telephone 102 is switched off, and any indication of the cellular telephone 102 being in service is removed, i.e. there is no indication

15 to a user that the cellular telephone 102 is active. The second SIM card reading unit 304 receives, through a slot 302, the visiting SIM 300 on a permanent or temporary basis.

The first or second SIM card 200, 300 can be contactless smartcards.

20 It should be noted that it is also conceivable to locate the second SIM card reading unit 304 elsewhere in the automobile 100 which is accessible to a user.

25 The trunk unit 104 (FIG. 2) comprises a microcontroller 202 having a first terminal 204, a second terminal 206, a third terminal 208, and a fourth terminal 212, the first terminal 204 being connected to an accident detection unit 205, for example, a sensor for detecting the deployment on an airbag. The second terminal 206 is connected to a Global Positioning System (GPS) receiver 210 for the determination of a location of the automobile 100. The third terminal 208 is connected to other interfaces, for example, coupled to a security unit 209 for managing the security of the automobile 100. Additionally, or alternatively, the other interfaces can be coupled to a key, button or switch acting as a "panic button" 211 (hereinafter referred to as

30 the panic button). The fourth terminal 212 is connected to the cellular telephone 102 located in a cabin of the automobile 100.

35

The second SIM card reading unit 214 is also connected to the cellular telephone 102 via a switch 216, the switch 216 being under the control of the microcontroller 202 and connected to a fifth terminal 218 of the microcontroller 202.

5

In each embodiment of the invention, electrical connection and activation of the fixed SIM 200 is required in order to execute a task. The task can be to update data stored by the fixed SIM 200 relating to addresses to be automatically contacted in emergency or other situations, such as upon 10 compromise of the security of the automobile 100. In the event of an accident or other emergency, the emergency services need to be contacted. Also, it can be desirable to collect and/or transmit information relating to the performance of the automobile 100. In the event of the security of the automobile 100 being compromised, the security services/the police need to 15 be contacted.

During normal operation, examples embodiments of the invention function as follows.

20 Referring to FIG. 4, the cellular telephone 102 polls the keypad 306 in order to determine (step 400) when the user has pressed the on/off key 308 in order to power-down the cellular telephone 102 into stand-by mode. When actuation of the on/off key 308 has been detected (step 400), the cellular telephone 102 executes (step 402) an update routine 500 (FIG. 5) for the 25 fixed SIM 200.

The update routine 500 includes the following steps. The cellular telephone 102 determines (step 502) whether the visiting SIM 300 has been installed. If the visiting SIM 300 has been detected as installed, the visiting SIM 300 is 30 electrically disconnected or ignored (step 504), and the fixed SIM 200 is electrically connected (step 506) and enabled (step 508). This can be achieved by the cellular telephone 102 instructing the microprocessor 202 to actuate the switch 216 through the fifth terminal 218. If the cellular telephone 102 determines (step 502) that the visiting SIM 300 is not 35 installed, the fixed SIM 200 is activated (step 506) without disconnecting (step 504) the visiting SIM 300 and connecting (step 506) the fixed SIM 200; this is because, in the absence of the visiting SIM 300, the system typically

automatically defaults to the connection and activation of the fixed SIM 200. A GSM dialogue (step 510) is then initiated. The dialogue can be the transmission and/or receipt of a Short Messaging Service (SMS) message, a telephone call involving the transmission of data or any other form of

5 dialogue known in the art for the purpose of updating the fixed SIM 200. The data to be updated can be data relating to addresses described above. Once the dialogue has been completed, an inactivity timer (not shown) is initiated (step 512) for the purpose of powering-up the cellular telephone at a predetermined interval, for example, every day, week, or month, in order to  
10 update the fixed SIM 200. The update routine 500 then terminates and (FIG. 4) the cellular telephone is permitted to power-down (step 404).

In a further example (FIG. 6), the cellular telephone 102 monitors the inactivity timer and determines (step 600) when the predetermined interval  
15 has expired. When the predetermined interval has expired, the cellular telephone 102 powers-up (step 602) automatically (i.e. without intervention by the user) and executes (step 604) the update routine 500 (FIG. 5) for the fixed SIM 200 described above. Once the update routine 500 has been executed, the cellular telephone 102 powers-down (step 606).

20 In an example of another embodiment (FIG. 7), the accident detection unit 205 monitors the sensors to determine (step 700) whether an accident has occurred, for example the detection of deployment of the airbag. If the accident has been detected, the cellular telephone 102 executes (step 702) a  
25 contact routine 800 (FIG. 8). The contact routine includes the following steps.

The cellular telephone 102 determines (step 802) whether the visiting SIM 300 is installed and activated. If the visiting SIM 300 is installed and  
30 activated, the cellular telephone 102 electrically disconnects or ignores (step 804) the visiting SIM 300 and electrically connects (step 806) the fixed SIM 200. The fixed SIM 200 is then activated (step 808). If the cellular telephone determines (step 802) that the visiting SIM 300 is not installed or activated, the fixed SIM 200 is activated without disconnecting (step 804)  
35 the visiting SIM 300 and connecting (step 806) the fixed SIM 200. The cellular telephone 102 then communicates (step 810) with an appropriate service, for example the police and/or ambulance service, by data

communication, such as SMS, or voice communication, such as a pre-recorded message. The contact routine 800 then terminates and the cellular telephone 102 proceeds to reconnect (step 704) and activate any visiting SIM 300 installed in the cellular telephone 102.

5

In an another example of this embodiment (FIG. 9), the cellular telephone 102 monitors (step 900) the other interfaces, via the microcontroller 202, for the actuation of the panic button 211. When the cellular telephone detects that the panic button has been actuated, the cellular telephone 102 executes (step 902) the contact routine 800 described above. However, in this case the appropriate service contacted (step 810) is the police. Once a message has been sent to the police, the cellular telephone 102 reconnects (step 904) any visiting SIM 300 installed in the cellular telephone 102.

15 In a further example of this embodiment (FIG. 10), the cellular telephone 102 polls the security unit 209 in order to determine (step 1002) whether an unauthorised party is tampering with the automobile 100 or whether the automobile 100 has been stolen. If any of the above conditions have been detected (step 1002), the cellular telephone 102 executes (step 1004) the contact routine 800. Again, the appropriate service contacted (step 810) can be the police or a security company which monitors the security of the automobile 100. Whilst contacting the police or the security company, the cellular telephone 102 receives position data relating to the location of the automobile 100 from the GPS receiver 210 and communicates the position data to the police and/or the security service. Once the contact routine 800 has terminated, the cellular telephone 102 ensures (step 1006) that the fixed SIM 200 remains electrically connected and activated so as to communicate updated position data, if necessary.

30

In another example of the above embodiment (FIG. 11), the cellular telephone 102 receives (step 1102) data from a sensor connected to the odometer. At a second predetermined interval (which can be the same as the first predetermined interval), the cellular telephone 102 then executes (step 1104) the contact routine 800. In this example, the cellular telephone 102 contacts the manufacturer of the automobile 100 or a garage responsible for maintenance of the automobile 100, and communicates the odometer reading to the manufacturer or the garage. Once the contact routine 800 has

terminated, the cellular telephone 102 reconnects (step 1106) and activates any visiting SIM 300 installed in the cellular telephone 102.

Such a procedure as described above can be executed whilst the cellular telephone 102 is powered-up, or alternatively, whilst the cellular telephone 102 is powered-down or upon initial powering-up of the cellular telephone 102 so as to minimise delay to the user in using the cellular telephone 102.

It is conceivable that in addition to or instead of the odometer reading other information can be communicated to the manufacturer or the garage, for example, details of faults detected by an engine management system or other sensors.

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## Claims

1. A data carrier system comprising a first data carrier selectively couplable to a communications device and a second data carrier selectively couplable to the 5 communications device in preference to the first data carrier, the first data carrier being arranged to be decoupled from the communications device when the second data carrier is coupled to the communications device; and during a predetermined period of time the communications device is arranged to be ensured of a supply of power and the second data carrier is arranged to be decoupled from the 10 communications device, thereby causing the first data carrier to be coupled to the communications device for the execution of a task requiring the first data carrier.

2. A system as claimed in Claim 1, wherein during substantially at least the predetermined period of time the communications device is arranged to be ensured of 15 the supply of power by maintaining the supply of power to the communications device in response to a command to extinguish the supply of power to the communications device, thereby facilitating execution of the task requiring the first data carrier.

20 3. A system as claimed in claim 1, wherein the communications device is actuatable between a powered state and an unpowered state, the communications device being arranged to be actuated from the unpowered state to the powered state at a predetermined interval for substantially at least the predetermined period of time.

25 4. A system as claimed in any one of the preceding claims, further comprising means for receiving the first data carrier, wherein the first data carrier is arranged to be substantially permanently in engagement with the means for receiving the first data carrier.

30 5. A cellular telephone comprising the system as claimed in anyone of the preceding claims.

6. A vehicle comprising the system as claimed in any preceding claim.

7. A method of operating a data carrier system including a first data carrier selectively couplable to a communications device and a second data carrier

5 selectively couplable to the communications device in preference to the first data carrier, the first data carrier being arranged to be decoupled from the communications device when the second data carrier is coupled to the communications device, the method comprising the steps of:

10 during a predetermined period of time, ensuring a supply of power to the communications device, and

decoupling the second data carrier from the communications device, thereby causing the first data carrier to be coupled to the communications device for the execution of a task requiring the first data carrier.

15 8. A method as claimed in Claim 7, further comprising, during substantially at least the predetermined period of time, ensuring the supply of power by maintaining the supply of power to the communications device in response to a command to extinguish the supply of power to the communications device, thereby facilitating execution of the task requiring the first data carrier.

20

9. A method as claimed in Claim 7, wherein the communications device is actuatable between a powered state and an unpowered state, and further comprises actuating the communications device from the unpowered state to the powered state at a predetermined interval for substantially at least the predetermined period of time.

25

10. A method as claimed in any one of claims 7 to 9, further comprising providing means for receiving the first data carrier, and substantially permanently engaging the first data carrier with the means for receiving the first data carrier.

30 11. A method or system as claimed in any preceding claim, wherein the first data carrier is a smartcard.

12. A method or system as claimed in any preceding claim wherein the second data carrier is a smartcard.

13. A method or system as claimed in Claim 11 or Claim 12, wherein the 5 smartcard is a contactless smartcard.

14. A method or system as claimed in claims 11, 12 or 13 wherein the smartcard is a Subscriber Identity Module.

10 15. A method or system as claimed in any preceding claim further comprising providing location determining means.

16. A method as claimed in Claim 15, wherein the location determining means is a Global Positioning System receiver.

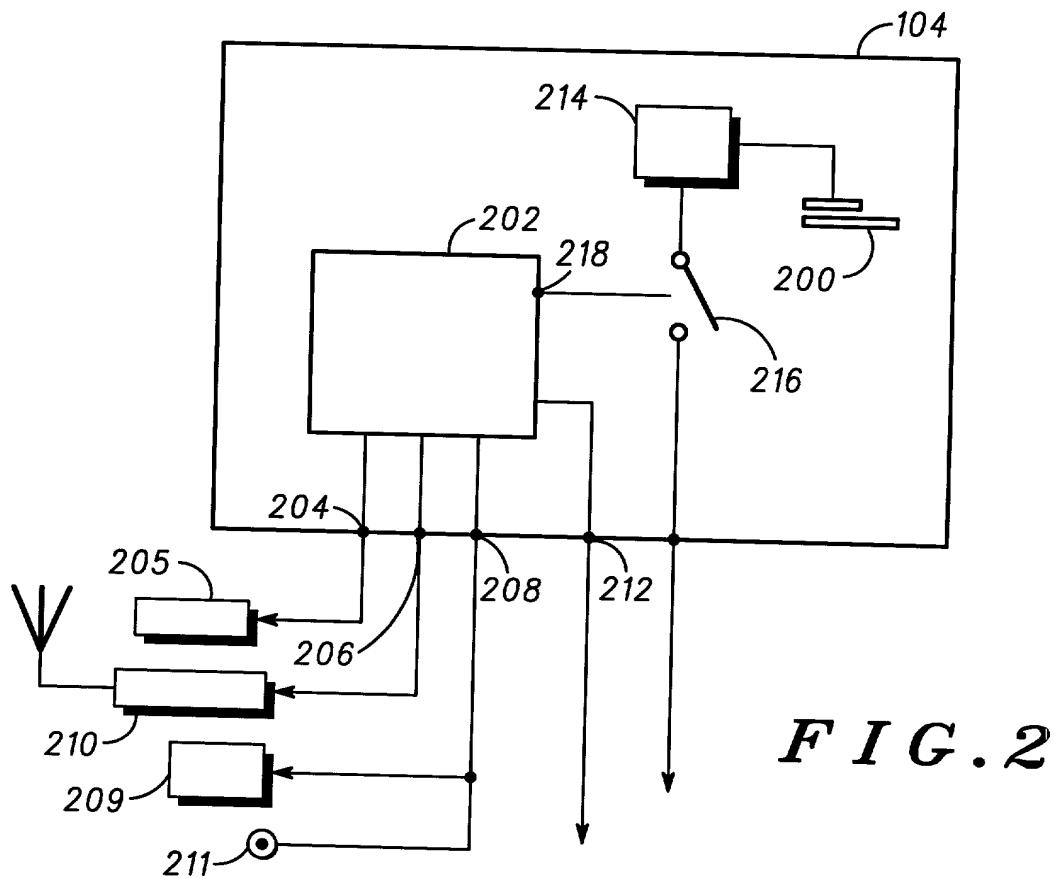
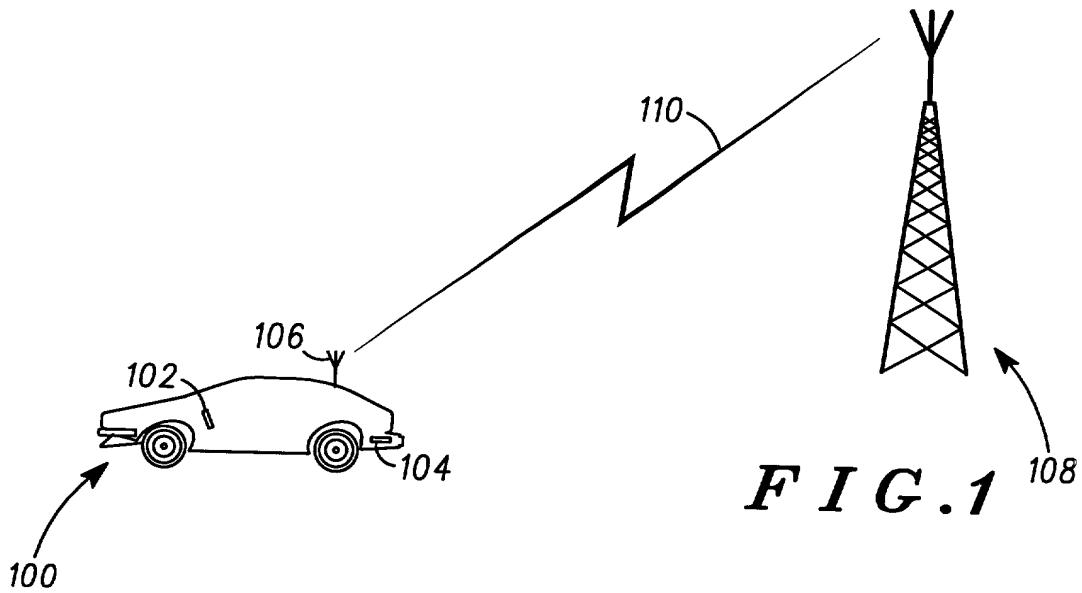
15 17. A method or system as claimed in any preceding claim, wherein the task is to update data stored in the first data carrier using the communications device.

18. A method or system as claimed in claim 17 wherein the data to be updated 20 includes addresses to be used in conjunction with vehicle applications.

19. A method or system as claimed in claim 18 wherein the vehicle applications include one or both of security call and emergency call applications.

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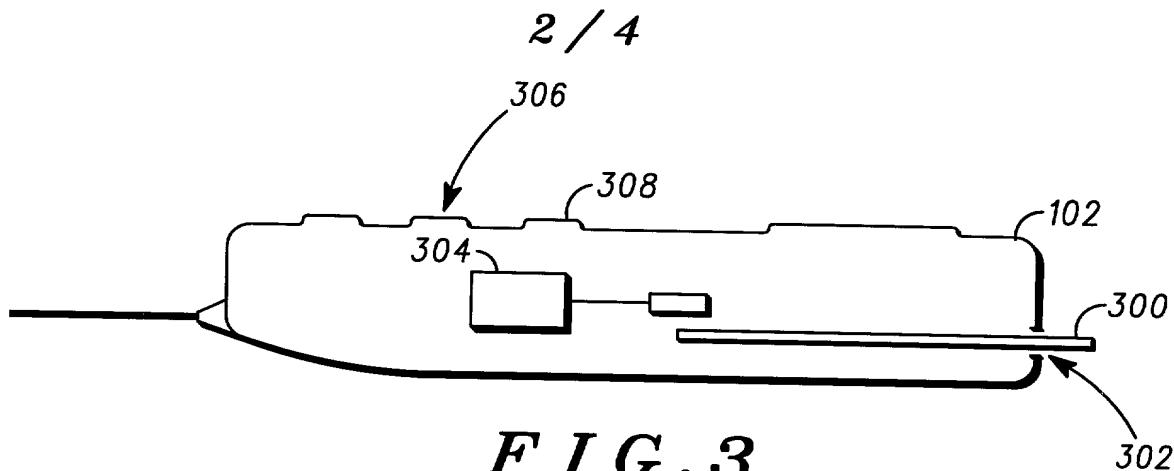
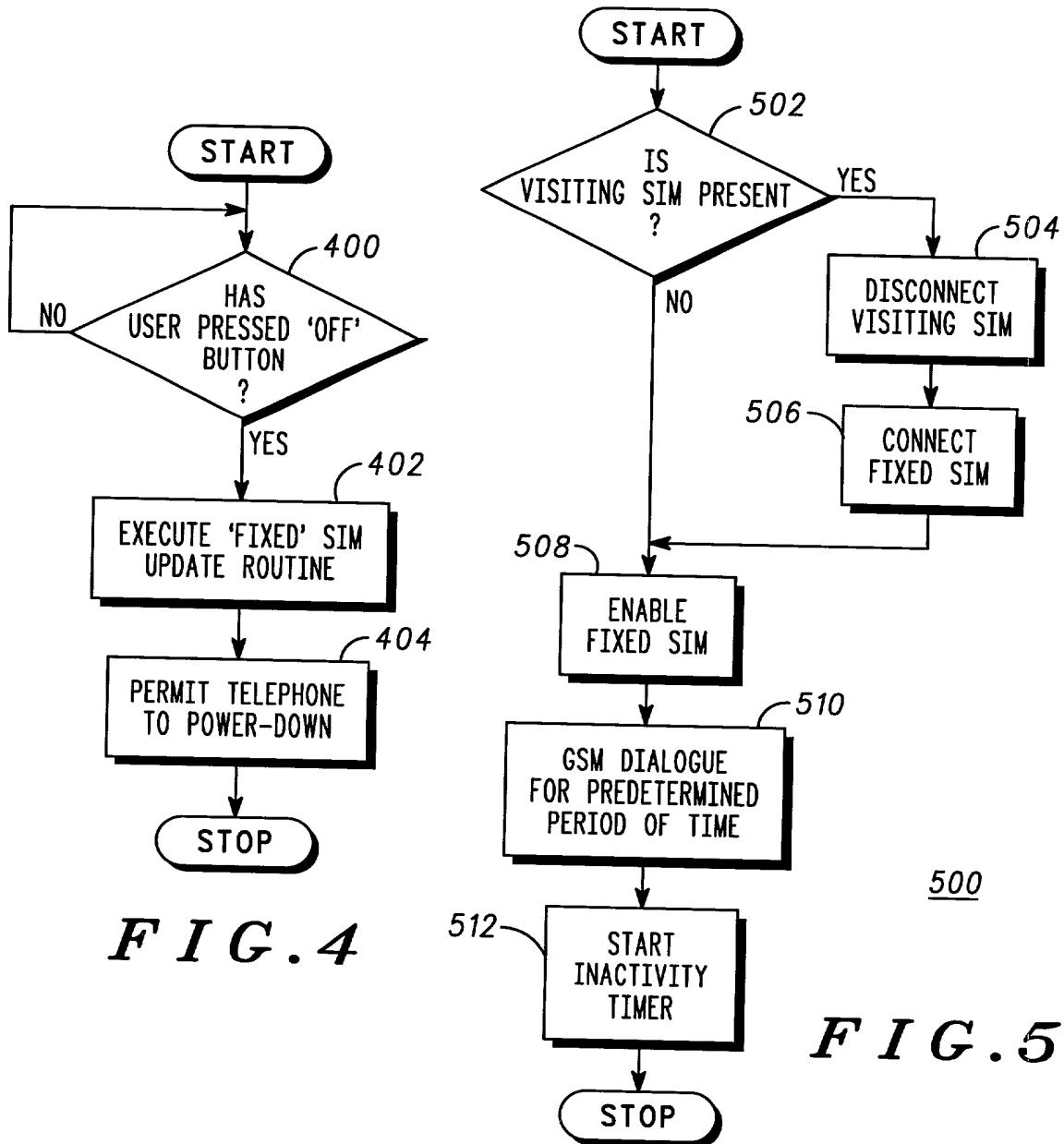
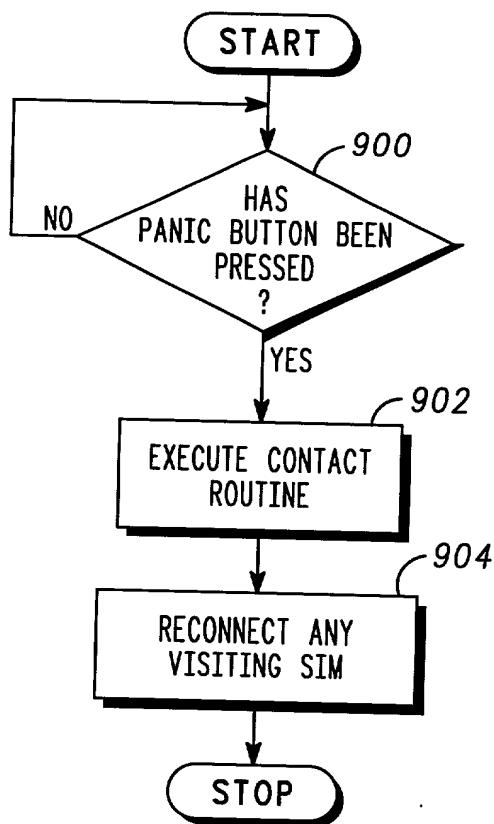


FIG. 3

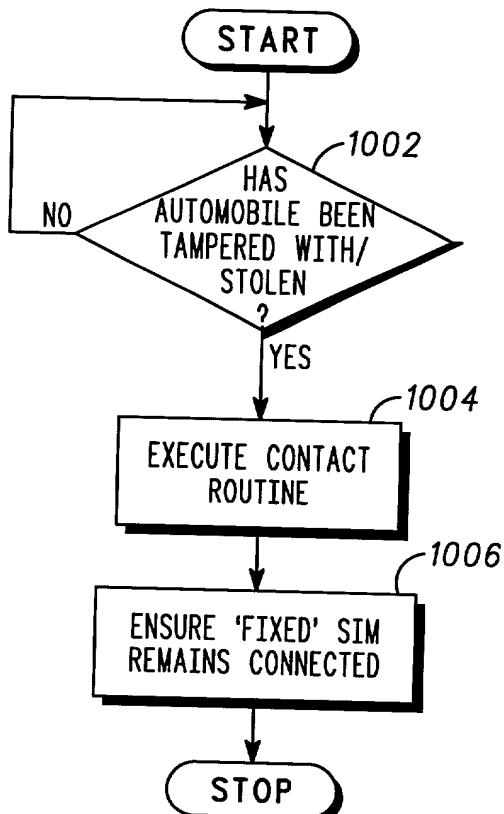


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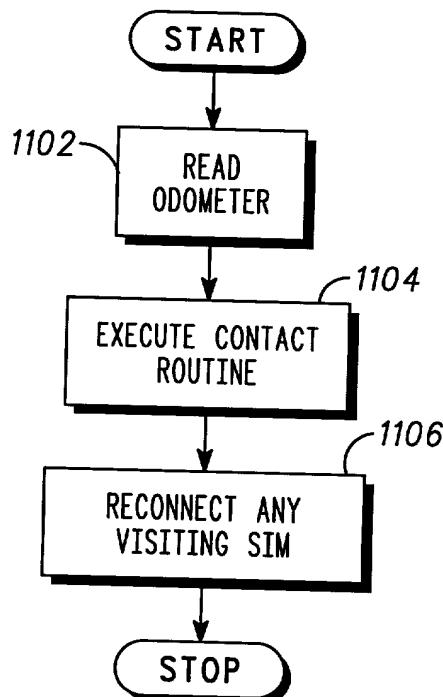
4 / 4



*FIG. 9*



*FIG. 10*



*FIG. 11*

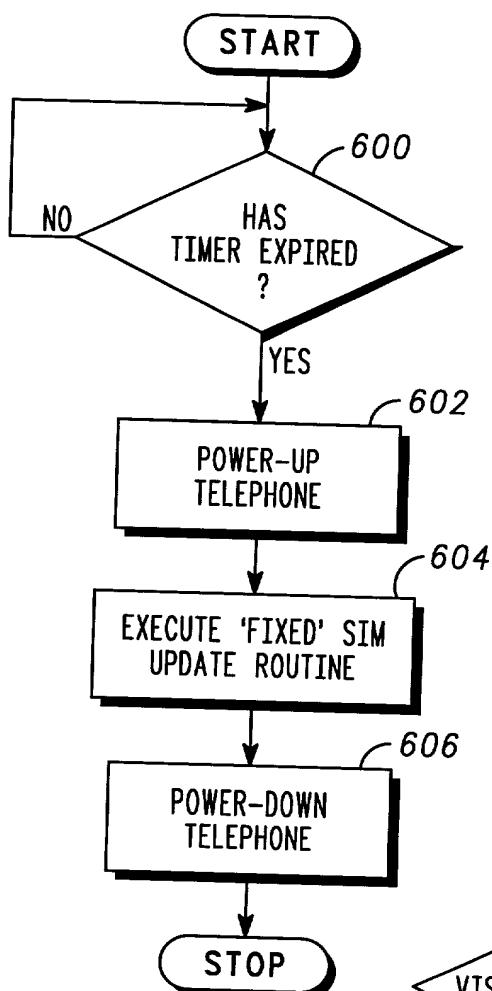


FIG. 6

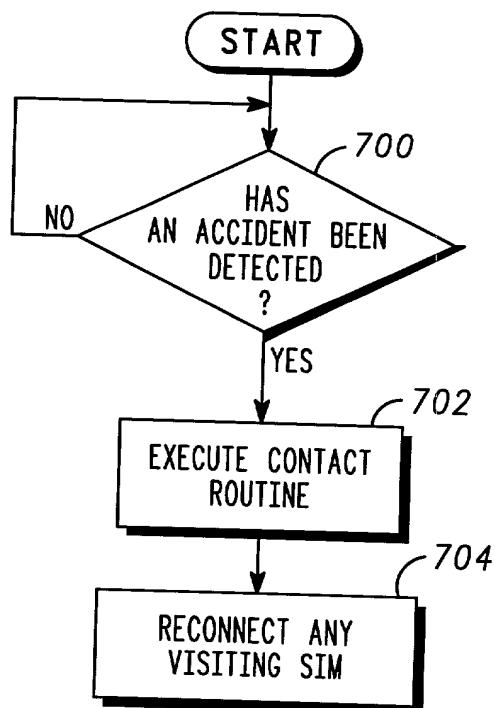


FIG. 7

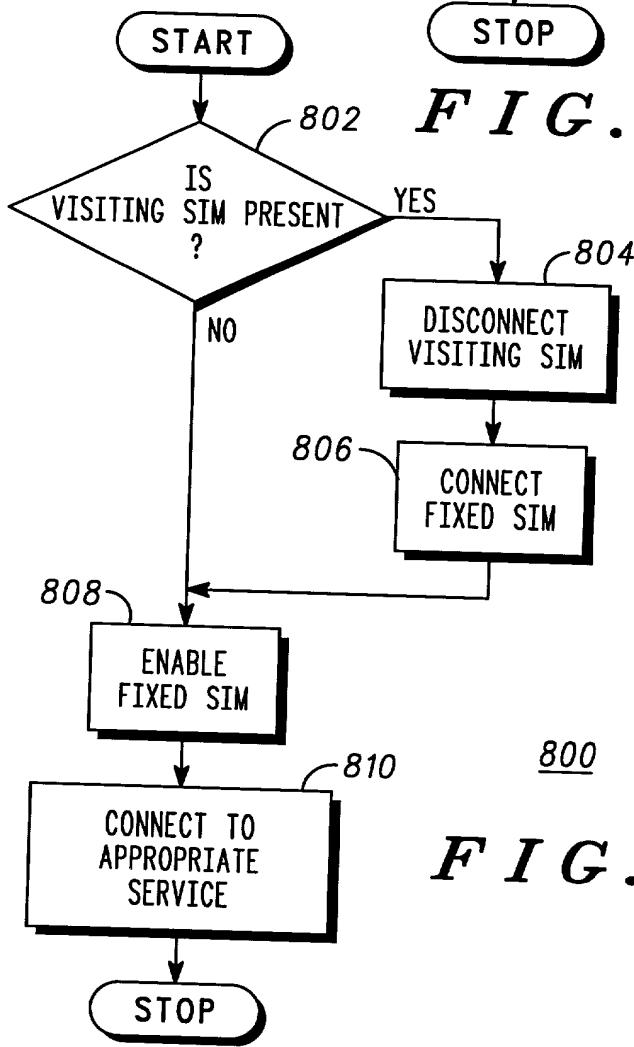


FIG. 8



## COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket CE01538R

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below), of the subject matter which is claimed and for which a patent is sought on the invention entitled DATA CARRIER SYSTEM, the specification of which is attached hereto unless the following box is checked:

Application was filed on 15 April 1999  
as Application No. pct/ep99/02578  
and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Priority Claimed		
9807967.6 (Number)	gb (Country)	16 April 1998 (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
(Application Number)	(Filing Date)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)

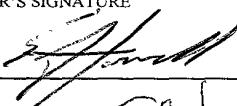
I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

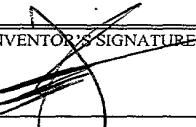
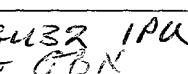
10 Jonathan P. Meyer, Reg. No. 30,477; Doug Fekete, Reg. No. 29,065;  
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

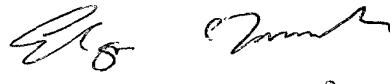
FULL NAME OF FIRST INVENTOR: FIRST MIDDLE LAST	INVENTOR'S SIGNATURE	DATE
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FULL NAME OF SECOND INVENTOR: FIRST MIDDLE LAST	INVENTOR'S SIGNATURE	DATE
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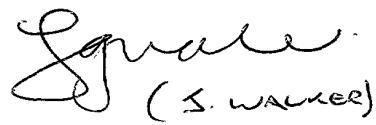
WITNESSE

for N.E. Barnes

  
(D. Freeman)

  
(E. Fernandes)

for S A Howell.

  
(S. Walker)

  
(R. C. Burridge)